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PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/557,577
				Filing Date	April 21, 2000
				First Named Inventor	FAIZ et al.
				Group Art Unit	1631
				Examiner Name	Marschel, A.
Attorney Docket Number	A-63761-5/RFT/RMS/RMK				
Sheet		of	3		

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AM ✓	1	4,704,193		Bowers et al.	11/1987	
✓	2	4,787,963		MacConnell	11/1988	
✓	3	4,945,045		Forrest et al.	07/1990	
✓	4	5,089,112		Skotheim et al.	02/1992	
✓	5	5,180,968		Bruckenstein et al.	01/1993	
✓	6	5,242,828		Bergstrom et al.	09/1993	
✓	7	5,356,786		Heller et al.	10/1994	
✓	8	5,391,272		O'Daly et al.	02/1995	
✓	9	5,436,161		Bergstrom et al.	07/1995	
✓	10	5,443,701		Willner et al.	08/1995	
✓	11	5,632,957		Heller et al.	05/1997	
✓	12	5,700,667		Marble et al.	12/1997	
✓	13	5,795,453		Gilmartin	08/1998	
✓	14	5,837,859		Teoule et al.	11/1998	
✓	15	5,849,486		Heller et al.	12/1998	

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		Office ³	Number ⁴	Kind Code ² (if known)				
AM ✓	16	WO	85/05815		Genetics International, Inc.	03/1985		
✓	17	WO	97/31256	A3	Cornell Research Found.	08/1997		
✓	18	WO	97/41425	A1	Pence Inc.	11/1997		
✓	19	WO	90/05303	A1	Pharmacia AB	05/1990		
✓	20	WO	95/34816	A1	Pharmacia Biosensor AB	12/1995		

Examiner Signature	<i>Adam Marschel</i>	Date Considered	6-28-02
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		Number	Kind Code ² (if known)			
AM ✓	21	6,071,699		Meade et al.	06/2000	
✓	22	6,087,100		Meade et al.	07/2000	
✓	23	6,096,273		Kayyem et al.	08/2000	
✓	24	6,096,825		Garnier et al.	08/2000	
✓	25	6,107,080		Lennox	08/2000	
✓	26	6,177,250		Meade et al.	01/2001	
✓	27	6,180,352		Meade et al.	01/2001	
✓	28	6,200,761		Meade et al.	03/2001	
✓	29	6,207,369		Wohlstadter et al.	03/2001	
✓	30	6,238,870		Meade et al.	05/2001	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ² (if known)			
AM ✓	31	WO	96/10178	A1	Pharmacia Biosensor AB	04/1996	

Examiner Signature	<i>Andin Marschel</i>	Date Considered	6-28-02
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Sheet	3	of	3
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Date Considered

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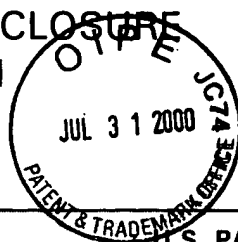
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INFORMATION DISCLOSURE CITATION

PTO-1449


 ATTY. DOCKET NO.
A-63761-5/RFT/RMS/
RMK

 SERIAL NO.
09/557,577

 APPLICANT
KAYYEM et al.

 FILING DATE
April 21, 2000

 GROUP **1631**
Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLAS S	FILING DATE
AM	A	4,707,352	11/17/87	Stavrianopoulos	424	1.1	
	B	4,707,440	11/1987	Stavrianopoulos	435	6	
	C	4,711,955	12/8/87	Ward et al.	536	29	
	D	4,755,458	7/5/88	Rabbani et al.	435	5	
	E	4,849,513	7/18/89	Smith et al.	536	27	
	F	4,868,103	9/19/89	Stavrianopoulos et al.	435	5	
	G	4,894,325	1/16/90	Englehardt et al.	435	6	
	H	4,943,523	7/24/90	Stavrianopoulos	435	7	
	I	4,952,685	8/28/90	Stavrianopoulos	536	27	
	J	4,994,373	2/19/91	Stavrianopoulos et al.	435	6	
	K	5,002,885	3/26/91	Stavrianopoulos	435	188	
	L	5,013,831	5/7/91	Stavrianopoulos	536	27	

FOREIGN PATENT DOCUMENTS

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							Yes	No
AM	M	0 63879	11/3/82	Europe				
	N	92/10757	6/25/92	PCT (WO)				
	O	0 234938	2/26/87	EP (A2)				
	P	93/102675/27	PCT (WO)					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

Arden Marshall

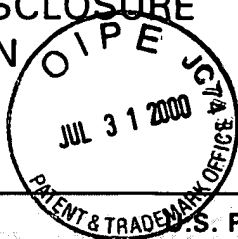
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6-28-02

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Not Yet Assigned

U.S. PATENT DOCUMENTS

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AM	Q	5,082,830	1/21/92	Brakel et al.	514	44	
	R	5,175,269	12/29/92	Stavrianopoulos	536	27	
	S	5,241,060	8/31/93	Englehardt et al.	536	27	
	T	5,278,043	1/11/95	Bannwarth et al.	536	23.1	
	U	5,312,527	5/17/94	Mikkelsen et al.	204	153.12	
	V	5,328,824	7/12/94	Ward et al.	435	6	
	W	5,449,767	9/12/95	Ward et al.	536	24.3	
	X	5,472,881	12/95	Beebe et al.	436	94	
	Y	5,476,928	12/19/95	Ward et al.	536	24	
	Z	5,495,908	1/21/97	Fawcett et al.	534	11	
	AA	5,565,552	10/15/96	Magda et al.	534	11	
	BB	5,573,906	11/12/96	Bannwarth et al.	435	6	
	CC	5,591,578	1/7/97	Meade et al.	435	6	
	DD	5,601,982	2/1997	Sargent et al.	435	6	

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AM	EE	2 090904	9/24/93	CANADA	1	1		
	FF	0 599337	1/16/94	EPO	1	1		
	GG	238,166	1988	JP (Abstract (63-	1	1		
	HH	0 229943	7/29/87	EP	1	1		
	II	96/0712	12/19/96	WO	1	1		

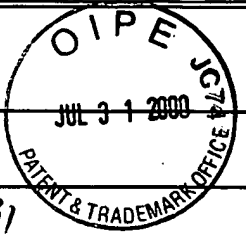
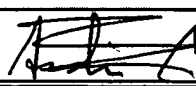
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Andi Masly

DATE CONSIDERED

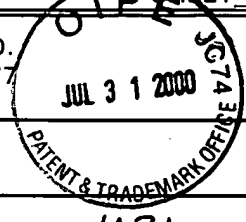
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INFORMATION DISCLOSURE CITATION PTO-1449				ATTY. DOCKET NO. A-63761-5/RFT/RMS/ RMK		SERIAL NO. 09/557,577			
				APPLICANT KAYYEM et al.					
				FILING DATE April 21, 2000		GROUP 1631 Not Yet Assigned			
U.S. PATENT DOCUMENTS									
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE		
<i>AM</i> ↓	JJ	4,840,893	6/20/89	Hill et al.	435	6			
	KK	5,403,451	4/4/95	Riviello et al.	204	153.1			
	LL	5,620,850	4/15/97	Bamdad et al.	530	300			
	MM	5,780,234 00	7/14/98	Meade et al.	435	6			
	NN	5,770,369 00	6/23/98	Meade et al.	435	6			
	OO	5,705,348 00	1/6/98	Meade et al.	435	6			
	PP	5,824,473 00	10/1998	Meade et al.	435	6			
FOREIGN PATENT DOCUMENTS									
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
<i>AM</i> ↓	QQ	0515615	9/4/96	EP (UK)			Yes	No	
	RR	97/01646	1/16/97	WO					
	SS	93/23425	11/25/93	WO					
	TT	90/05732	5/31/90	WO					
	UU	6-41183	2/15/94	JP					
	VV	93/22678	11/1993	PCT					
	WW	97/44651	11/1997	PCT					
	XX	98/35232	8/1998	PCT					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
									
EXAMINER <i>Andi Marshall</i>				DATE CONSIDERED <i>6-28-02</i>					

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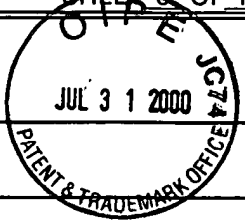
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U.S. PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
<i>AM</i> <i>↓</i>	YY	5,776,672 572	7/1998	Hashimoto et al.	435	6		
	ZZ	5,952,172	9/1999	Meade et al.	435	6		
	AAA	5,552,270	9/1996	Khrapko et al.	435	6		
	BBB	5,741,400	4/1998	Ershov et al. Kwalb	162	158		
	CCC	5,770,721	6/1998	Ershov et al.	536	25.3		
	DDD	5,851,772	12/1998	Mirzabekov et al.	435	6		
	EEE	5,756,050	5/1998	Ershov et al.	422	100		
	FFF	5,741,700	4/1998	Ershov et al.	435	287.1		
	GGG	5,571,568	11/1996	Ribi et al.	427	487		
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>AM</i> <i>↓</i>	HHH	95/15971	6/1995	PCT				
	III	94/22889	10/1994	PCT				
	JJJ	98/20162	5/1998	PCT				
	KKK	99/14596	3/1999	PCT				
	LLL	99/67425	12/1999	PCT				
	MMM	98/28444	7/1998	PCT				
	NNN	98/27229	6/1998	PCT				
	OOO	97/27329	7/1997	PCT				
EXAMINER		<i>Ashli Mashef</i>		DATE CONSIDERED		<i>6-28-02</i>		

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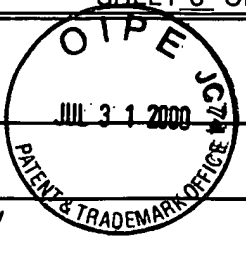
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AM	1	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996).
	2	Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorganic Biochem. Abstracts</i> , 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).
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	4	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993).
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	11	Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).
	12	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).
	13	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocycytochrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991).
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	15	Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 112:4301-4306 (1990).
	16	Chrisey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996).
	17	Clery, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995).
	18	<i>Commerce Business Daily Issue</i> of September 26, 1996 PSA#1688.
↓	19	DATABASE WPI, Derwent Publications Ltd., London, GB; AN 88-320199 & JP, A, 53 238 166 (MITSUBISHI DENKI KK), 4 October 1988.

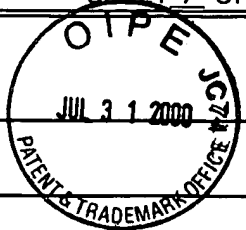
EXAMINER <i>Andi Masali</i>	DATE CONSIDERED <i>6-28-02</i>
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AM	20	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987).		
	21	Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).		
	22	Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," <i>J. Am. Chem. Soc.</i> 110:2615-2620 (1988).		
	23	Degani, Y., et al., "Electrical Communication between Redox Centers of Glucose Oxidase and Electrodes via Electrostatically and Covalently Bound Redox Polymers," <i>J. Am. Chem. Soc.</i> , 111:2357-2358 (1989).		
	24	Degani, Y., et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 1. Electron Transfer from Glucose Oxidase to Metal Electrodes via Electron Relays, Bound Covalently to the Enzyme," <i>J. Phys. Chem.</i> , 91(6):1285-1288 (1987).		
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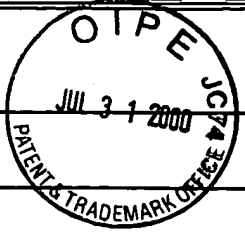
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